

Title (en)  
COVERAGE ENHANCEMENTS FOR PHYSICAL BROADCAST CHANNEL (PBCH)

Title (de)  
REICHWEITENVERBESSERUNGEN FÜR EINEN PHYSIKALISCHEN RUNDFUNKKANAL (PBCH)

Title (fr)  
AMÉLIORATIONS DE COUVERTURE DE CANAL DE DIFFUSION PHYSIQUE (PBCH)

Publication  
**EP 3145255 A1 20170322 (EN)**

Application  
**EP 16197829 A 20140918**

Priority  
• US 201361879634 P 20130918  
• US 201414489146 A 20140917  
• EP 14781762 A 20140918  
• US 2014056300 W 20140918

Abstract (en)  
The invention relates to a method (800) for wireless communications by a user equipment, UE, comprising: receiving (802) rate matching information for a repeated physical broadcast channel (PBCH) transmission in a radio frame; and processing (804) downlink transmissions in the radio frame, based on the rate matching information.

IPC 8 full level  
**H04W 52/16** (2009.01); **H04W 52/32** (2009.01)

CPC (source: EP KR US)  
**H04L 5/0039** (2013.01 - KR); **H04L 5/0053** (2013.01 - EP KR US); **H04W 24/08** (2013.01 - KR US); **H04W 52/143** (2013.01 - KR); **H04W 52/16** (2013.01 - EP KR US); **H04W 52/241** (2013.01 - KR US); **H04W 52/322** (2013.01 - EP KR US); **H04W 74/08** (2013.01 - EP US); **H04W 74/0833** (2013.01 - EP KR US); **H04L 5/0023** (2013.01 - EP US); **H04L 5/0039** (2013.01 - EP US); **H04W 52/143** (2013.01 - EP US); **H04W 74/006** (2013.01 - EP US)

Citation (search report)  
• [YA] WO 2009023835 A1 20090219 - QUALCOMM INC [US], et al  
• [YA] INTEL CORPORATION: "Discussion on PBCH Coverage Enhancement for Low Cost MTC", vol. RAN WG1, no. Barcelona, Spain; 20130819 - 20130823, 10 August 2013 (2013-08-10), XP050716367, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg\_ran/WG1\_RL1/TSGR1\_74/Docs/> [retrieved on 20130810]  
• [YA] HUAWEI ET AL: "Further discussion on PBCH coverage improvement for low cost MTC", vol. RAN WG1, no. Barcelona, Spain; 20130819 - 20130823, 10 August 2013 (2013-08-10), XP050716124, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg\_ran/WG1\_RL1/TSGR1\_74/Docs/> [retrieved on 20130810]  
• [A] "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Study on provision of low-cost Machine-Type Communications (MTC) User Equipments (UEs) based on LTE (Release 12)", 3GPP STANDARD; 3GPP TR 36.888, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. V12.0.0, 25 June 2013 (2013-06-25), pages 1 - 55, XP050692861

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 11122520 B2 20210914; US 2015078300 A1 20150319**; CA 2920904 A1 20150326; CA 3212539 A1 20150326; CA 3212764 A1 20150326; CN 105557039 A 20160504; CN 105557039 B 20200313; CN 108848556 A 20181120; CN 108848556 B 20210615; CN 112911695 A 20210604; CN 112911695 B 20240423; EP 3047685 A1 20160727; EP 3047685 B1 20171018; EP 3145253 A1 20170322; EP 3145253 B1 20180502; EP 3145254 A1 20170322; EP 3145254 B1 20180502; EP 3145255 A1 20170322; EP 3145255 B1 20191120; ES 2656005 T3 20180222; HU E037496 T2 20180828; JP 2016536936 A 20161124; JP 2019169957 A 20191003; JP 2021007222 A 20210121; JP 2022172135 A 20221115; JP 6526015 B2 20190605; JP 6911074 B2 20210728; JP 7179804 B2 20221129; JP 7333452 B2 20230824; KR 102064299 B1 20200109; KR 102194589 B1 20201223; KR 102220844 B1 20210225; KR 20160057455 A 20160523; KR 20200004918 A 20200114; KR 20200108931 A 20200921; US 2021377873 A1 20211202; WO 2015042261 A1 20150326

DOCDB simple family (application)  
**US 201414489146 A 20140917**; CA 2920904 A 20140918; CA 3212539 A 20140918; CA 3212764 A 20140918; CN 201480051364 A 20140918; CN 201811066247 A 20140918; CN 202110126960 A 20140918; EP 14781762 A 20140918; EP 16197822 A 20140918; EP 16197824 A 20140918; EP 16197829 A 20140918; ES 14781762 T 20140918; HU E14781762 A 20140918; JP 2016543985 A 20140918; JP 2019087726 A 20190507; JP 2020148219 A 20200903; JP 2022127897 A 20220810; KR 20167009937 A 20140918; KR 20207000135 A 20140918; KR 20207026363 A 20140918; US 2014056300 W 20140918; US 202117404374 A 20210817